CHAPTER Tissue: The Living Fabric 4

4.1 Tissue samples are fixed, sliced, and stained for microscopy

Learning Outcome

- List the steps involved in preparing animal tissue for microscopic viewing.
- A. Tissue specimens must be fixed and sectioned thinly enough to allow light transmission.
- B. Tissue sections must be stained with dyes that bind to different parts of the cell in slightly different ways so that anatomical structures are distinguished from one another.

4.2 Epithelial tissue covers body surfaces, lines cavities, and forms glands

Learning Outcomes

- List several structural and functional characteristics of epithelial tissue.
- Name, classify, and describe the various types of epithelia, and indicate their chief function(s) and location(s).
- Define gland.
- Differentiate between exocrine and endocrine glands, and between multicellular and unicellular glands.
- Describe how multicellular exocrine glands are classified structurally and functionally.
- A. Epithelium occurs in the body as covering or lining epithelium, or as glandular epithelium.
- B. Epithelial tissues perform several functions in the body: protection, absorption, filtration, excretion, secretion, and sensory reception.
- C. Special Characteristics of Epithelium
 - Polarity: Tissue has an apical surface not attached to surrounding tissues facing either the
 external environment or the cavity of an internal organ, and a basal surface attached to the
 underlying connective tissue.
 - Specialized contacts: Adjacent epithelial cells are bound together by specialized contacts such as desmosomes and tight junctions.
 - Supported by connective tissue: A basement membrane, consisting of a basal lamina, and a reticular lamina derived from the collagen of underlying connective tissue.
 - Epithelial tissues are innervated, but avascular receiving nutrients by diffusion from underlying connective tissues.
 - Epithelial tissue has a high regeneration capacity.
- D. Classification of Epithelia
 - Each epithelial tissue has a two-part name: the first part indicates the number of layers present, and the second part describes the shape of the cells.
 - Simple epithelia consist of a single layer of cells, while stratified epithelia consist of several layers.
 - b. Cell shapes may be squamous (flat), cuboidal (box-like), or columnar (column shaped).
 - A simple epithelium consists of a single layer of cells that functions in absorption, secretion, and filtration.
 - Simple Squamous epithelium has laterally flattened cells with little cytoplasm, located where filtration or exchange of substances occurs.

Tissue The Living Fabric Study Guide Answers

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